<u>Claims</u>

I claim:

- 1. A distributed system comprising:
- a plurality of cooperative processes running on a plurality of processors of a computer network to accomplish a distributed transaction, each process logging in a local resource records of execution; and
 - a search engine running on each of the plurality of processors, each search engine retrieving corresponding records of execution in response to a query.
- 2. A distributed system as in Claim 1, wherein the query is issued to the processors as a distributed query.
 - 3. A distributed system as in Claim 1, wherein the query is issued from a client performing debugging of the distributed system.
 - 4. A distributed system as in Claim 1, wherein the query is issued from a client performing an audit trail of distributed transactions.
- 15 5. A distributed system as in Claim 1, wherein the query is issued from a client performing monitoring of a manufacturing process.
 - 6. A distributed system as in Claim 1, wherein the query is issued from a client performing monitoring of a business process.
- 7. A distributed system as in Claim 1, wherein the query is issued from a client performing application integration.
 - 8. A distributed system as in Claim 1, wherein the query is issued from a client which merges the results received from search engines responding to the query.
 - 9. A distributed system as in Claim 8, wherein the client applies program rules on the merged results to determine correct operation of the distributed system.
- 25 10. A distributed system as in Claim 1, wherein each search engine generates indices to the records of execution.
 - 11. A distributed system as in Claim 10, wherein the indices is created in memory.

- 12. A distributed system as in Claim 11, wherein a portion of the indices are stored onto disk after a specified time period.
- 13. A distributed system as in Claim 11, wherein the indices in memory and the portion of the indices stored onto disk are merged from time to time.
- 5 14. A method for analyzing a distributed system, comprising:

running a plurality of cooperative processes on a plurality of processors of a computer network to accomplish a distributed transaction, each process logging in a local resource records of execution; and

running a search engine on each of the plurality of processors, each search engine retrieving corresponding records of execution in response to a query.

- 15. A method as in Claim 14, wherein the query is issued to the processors as a distributed query.
- 16. A method as in Claim 14, wherein the query is issued from a client performing debugging of the distributed system.
- 15 17. A method as in Claim 14, wherein the query is issued from a client performing an audit trail of distributed transactions.
 - 18. A method as in Claim 14, wherein the query is issued from a client performing monitoring of a manufacturing process.
- 19. A method as in Claim 14, wherein the query is issued from a client performing 20 monitoring of a business process.
 - 20. A method as in Claim 14, wherein the query is issued from a client performing application integration.
 - 21. A method as in Claim 14, wherein the query is issued from a client, further comprising merging in the client the results received from search engines responding to the query.

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- 22. A method as in Claim 21, further comprising applying in the client program rules on the merged results to determine correct operation of the distributed system.
- 23. A method as in Claim 14, further comprising generating in each search engine indices to the records of execution.

- 24. A method as in Claim 23, wherein the indices are created in memory.
- 25. A method as in Claim 24, further comprising storing a portion of the indices onto disk after a specified time period.
- 26. A method as in Claim 25, further comprising merging, from time to time, the indices in memory and the portion of the indices stored onto disk.